



US007043437B1

(12) **United States Patent**  
**Nielsen et al.**

(10) **Patent No.:** **US 7,043,437 B1**  
(45) **Date of Patent:** **May 9, 2006**

(54) **STANDARDIZED INPATIENT-OUTPATIENT NOMENCLATURES AND ACCEPTING BOTH OUTPATIENT AND INPATIENT DATA TO COMMONLY ACCESSIBLE STORAGE**

6,198,389 B1 3/2001 Buccola  
6,385,203 B1 5/2002 McHale et al.  
6,581,038 B1 \* 6/2003 Mahran ..... 705/3

#### FOREIGN PATENT DOCUMENTS

(75) Inventors: **Peter E. Nielsen**, Gig Harbor, WA (US); **Brook A. Thomson**, Lakewood, WA (US)

JP 404057187 A 2/1992

#### OTHER PUBLICATIONS

(73) Assignee: **The United States of America as represented by the Secretary of the Army**, Washington, DC (US)

Fackler, J.C. et al., "Integration of Intermittent Clinical Data With Continuous Data From Bedside Monitors", Sixth Annual IEEE Symposium on Computer-Based Medical Systems, Jun. 13-16, 1993, pp. 289-294.

(Continued)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 597 days.

*Primary Examiner*—W. R. Young  
*Assistant Examiner*—Huyen X. Vo  
(74) *Attorney, Agent, or Firm*—Elizabeth Arwine

(21) Appl. No.: **10/038,567**

(22) Filed: **Jan. 3, 2002**

#### Related U.S. Application Data

(60) Provisional application No. 60/261,151, filed on Jan. 16, 2001.

(51) **Int. Cl.**  
**G10L 21/00** (2006.01)

(52) **U.S. Cl.** ..... **704/270.1**; 704/10; 704/7;  
705/2; 705/3; 705/9

(58) **Field of Classification Search** ..... 705/1-3,  
705/9; 283/72; 704/7, 9-10, 270.1  
See application file for complete search history.

#### (56) References Cited

##### U.S. PATENT DOCUMENTS

5,682,526 A 10/1997 Smokoff et al.  
5,772,585 A 6/1998 Lavin et al.  
5,809,476 A \* 9/1998 Ryan ..... 705/2  
5,845,253 A \* 12/1998 Rensimer et al. .... 705/2  
5,845,255 A 12/1998 Mayaud  
6,155,603 A 12/2000 Fox

#### (57) ABSTRACT

Methods and systems which provide for standardized inpatient-outpatient nomenclatures and accepting both outpatient and inpatient data to commonly accessible storage. In a first method embodiment, the first method is characterized by accepting user input identifying at least two different names for a substantially similar grouping of one or more medical criteria; and accepting user input specifying at least one of the at least two different names as forming at least a part of an outpatient-inpatient standardized nomenclature for the substantially similar grouping of one or more medical criteria. In a second method embodiment, the second method is characterized by accepting either outpatient or inpatient data to commonly accessible storage. In one or more various embodiments, related systems include but are not limited to circuitry and/or programming for effecting the foregoing-referenced method embodiments; the circuitry and/or programming can be virtually any combination of hardware, software, and/or firmware configured to effect the foregoing-referenced method embodiments depending upon the design choices of the system designer.

**5 Claims, 55 Drawing Sheets**

